

**SPECIFICATION
FOR
PIANOS, UPRIGHT**

(THIS SPECIFICATION IS RELEASED FOR PROCUREMENT PURPOSES UNTIL REVISED OR RESCINDED.)

SCOPE

THIS SPECIFICATION COVERS UPRIGHT PIANOS INTENDED FOR RECREATIONAL, GENERAL CLASSROOM, PRACTICE ROOM, MUSIC THEORY ROOM AND PIANO MAJOR PRACTICE ROOMS IN STATE SCHOOLS, COLLEGES AND UNIVERSITIES. IT IS NOT INTENDED TO COVER ALL TYPES AND CLASSES OF PIANOS THAT MAY BE COMMERCIALY AVAILABLE.

I. CLASSIFICATION

THIS SPECIFICATION COVERS THREE CLASSES OF UPRIGHT PIANOS ACCORDING TO THE INTENDED USE AS FOLLOWS:

CLASS I

RECOMMENDED FOR THE MUSIC THEORY ROOM AND ADVANCED PIANO STUDENT (MUSIC MAJOR) PRACTICE ROOMS, IN STATE SCHOOLS OF MUSIC AND DEPARTMENTS OF MUSIC IN STATE COLLEGES AND UNIVERSITIES WHERE MUSIC MAJORS ARE BEING TRAINED.

CLASS II

RECOMMENDED FOR CLASSROOM, CHORAL AND BAND ROOMS, AND AUDITORIUM.

CLASS III

RECOMMENDED FOR RECREATIONAL USE.

II. APPLICABLE STANDARDS

NO OTHER SPECIFICATIONS OR STANDARDS ARE APPLICABLE TO THIS SPECIFICATION.

III. REQUIREMENTS

A. GENERAL

THE PIANOS SHALL BE STANDARD MODELS IN CURRENT PRODUCTION AND IDENTIFIABLE AS SUCH BY MODEL DESIGNATIONS FROM THE MANUFACTURER'S PUBLISHED CATALOG LITERATURE. THE PIANOS SHALL HAVE A FULL KEYBOARD OF 88 KEYS.

B. BACK

THE BACK SHALL CONSIST OF TOP, POSTS, FOOT PIECE, FRONT AND BACKBOARDS, SOLIDLY CONSTRUCTED SO AS NOT TO SEPARATE, WARP, OR OTHERWISE DETERIORATE.

C. SPECIAL CLASS REQUIREMENTS (MINIMUM)

	<u>CLASSES</u>		
	<u>I</u>	<u>II</u>	<u>III</u>
HEIGHT, W/CASTERS (INCHES)	46	45	45
SOUNDBOARD ANNUAL RINGS*	8	6	6
ACTION RAIL	ALUMINUM OR MAPLE (ALL CLASSES)		
JACKS	ABS PLASTIC OR MAPLE (ALL CLASSES)		
LET-OFF BUTTONS	ABS PLASTIC OR MAPLE (ALL CLASSES)		
KEY BUTTONS, REPLACEABLE	MAPLE/BEECH	NOT REQUIRED	NOT REQUIRED
KEYS INDIVIDUALLY WEIGHTED	YES	NOT REQUIRED	NOT REQUIRED
WEIGHT OF HAMMER FELT (LBS)	13	12	12
BUCKSKIN ON CATCHERS	YES	NOT REQUIRED	NOT REQUIRED
HAMMER BUTTS	KILN-DRIED HARDWOOD (ALL CLASSES)		
WHIPPENS	KILN-DRIED HARDWOOD (ALL CLASSES)		

*NOT APPLICABLE ON LAMINATED BOARDS

D. SOUNDBOARD

THE SOUNDBOARD SHALL BE CONSTRUCTED OF SOLID SPRUCE OR APPROVED LAMINATED MATERIALS WITH HARDWOOD FACES THAT WILL GIVE ACCEPTABLE TONE QUALITY.

E. PIN BLOCK

THE PIN BLOCK SHALL BE OF MULTIPLE PLIES OF APPROVED LAMINATED HARDWOOD.

F. PLATE

THE PLATE SHALL BE OF CAST IRON, CLEAN, FREE FROM DEFECTS AND SHALL BE FITTED SOLIDLY TO WOOD THROUGHOUT ALL SURFACES DESIGNED FOR CONTACT. PLATE SHALL BE FINISH PLATED IN BRONZE OR GOLD. CAST-IN-PLACE HITCH PINS SHALL BE UNACCEPTABLE. THE NAME OF THE COMPANY THAT MANUFACTURES THE PIANO SHALL BE CAST ONTO THE PLATE.

G. BRIDGES

THE BRIDGES SHALL BE OF HARD MAPLE AND SECURELY ATTACHED TO THE SOUNDBOARD BY SCREWS OR DOWELS AND GLUE. BRIDGES MAY BE OF LAMINATED CONSTRUCTION WITH OR WITHOUT CAP IF LAMINATIONS ARE VERTICAL. THEY MAY ALSO BE OF SOLID CONSTRUCTION WITH OR WITHOUT CAP, BUT MAY NOT BE HORIZONTALLY LAMINATED. THE BRIDGE TO SOUNDBOARD ASSEMBLY SHALL BE CROWNED TO PROVIDE SUFFICIENT DOWNBEARING FOR EFFECTIVE SOUND TRANSMISSION FROM STRINGS TO SOUNDBOARD. BRIDGES SHALL BE PROPERLY NOTCHED.

H. ACTION

THE ACTION SHALL BE DIRECT BLOW TYPE, ENTIRELY ABOVE KEYBED, CONSTRUCTED TO PERMIT READY ACCESS FOR REGULATION. ACTION SHALL BE TYPE WHICH WILL ALLOW KEY TO DEPRESS HALFWAY UNDER A 2-OZ. (56 GRAMS) WEIGHT WITH DAMPER PEDAL DEPRESSED. TOUCH SHALL BE UNIFORM AND EVEN THROUGHOUT ALL REGISTERS. WOOD PARTS SHALL BE KILN-DRIED HARD MAPLE, EXCEPT HAMMER MOLDING MAY BE BIRCH, WALNUT OR HARD MAPLE. HAMMER FELT SHALL BE 100% PURE VIRGIN WOOL TOP FELT AND UNDERFELT, MOTHPROOFED, AND SHALL BE GLUED TO HAMMERS WITH WATERPROOF GLUE. ACTION CENTERS TO BE BUSHED WITH HIGH QUALITY MOTHPROOFED WOOL BUSHING CLOTH, AND THE FELT PARTS TO BE OF HIGH QUALITY MOTHPROOFED WOOL FELT. WHIPPEN UNDERLEVER PADS AND DAMPER LEVER PADS WHICH CONTACT SPOONS SHALL BE WOOL CLOTH, NOT FELT. UPON RELEASE OF

KEY, DAMPER SHALL IMMEDIATELY STOP AUDIBLE VIBRATIONS ON SOUNDING STRING. HAMMERS SHALL BE SHAPED AND VOICED.

I. KEY FRAME

KEY FRAME PUNCHINGS AND BACK RAIL CLOTH SHALL BE MOTHPROOFED.

J. KEYBED

THE KEYBED SHALL BE CONSTRUCTED FOR MAXIMUM STABILITY AND MINIMAL DIMENSIONAL CHANGE.

K. KEYS

EXPOSED ENDS, EDGES, AND CORNERS OF KEYS SHALL BE FREE OF ROUGH OR SHARP PROJECTIONS. KEYS SHALL BE PROPERLY BUSHED AND EASED ON THE KEY FRAME. KEY BUSHINGS SHALL BE MOTHPROOFED. KEYS SHALL HAVE FUNCTIONAL KEY BUTTONS MOLDED IN OR GLUED ON, AND PROPERLY BUSHED. CAPSTANS TO BE BRASS OR OTHER PLATED MATERIAL AND SHALL BE MACHINED AND POLISHED SO THERE ARE NO ROUGH EDGES.

L. PEDALS

PEDALS SHALL BE FINISHED IN BRUSHED OR POLISHED BRASS. PEDALS MAY BE SOLID BRASS OR MAY BE CAST IRON WITH BRASS TOE CAPS.

M. CASE

THE CASE SHALL BE SOLIDLY CONSTRUCTED WITH SOLID HARDWOOD OR REAL WOOD VENEER SURFACE. CASTERS SHALL BE OF THE SWIVEL TYPE AND AT LEAST 2" DOUBLE WHEEL, RUBBER TIERED, BALL BEARING.

N. FINISH

CASE SHALL BE SANDED, STAINED, FILLED, AND FINISHED WITH A FINE STAIN OR POLISHED FINISH. THE TYPE OF FINISH (WALNUT, ETC.) WILL BE SPECIFIED IN THE INVITATION FOR BIDS.

O. ADJUSTMENTS AND TUNING

THE INSTRUMENT, AT THE TIME OF DELIVERY, SHALL BE PROPERLY SET UP, REGULATED AND TUNED (A440) BY THE CONTRACTOR AND LEFT IN SATISFACTORY PLAYING CONDITION. IT SHALL BE TUNED AND REGULATED BY THE CONTRACTOR AGAIN NOT LATER THAN SIX MONTHS AFTER DELIVERY. ALL PARTS OF THE ACTION SHALL BE REGULATED IN ACCORDANCE WITH THE PIANO MANUFACTURER'S SPECIFICATION. REGULATION SHALL INCLUDE KEY LEVEL, KEY DIP, UNIFORMITY OF TOUCH, BACK CHECKS, DAMPERS AND PEDALS.

EACH CLASS SHALL BE VOICED TO THE SATISFACTION OF THE HEAD OF THE MUSIC DEPARTMENT OR AN AUTHORIZED REPRESENTATIVE OF THE ORDERING AGENCY.

P. PERFORMANCE REQUIREMENTS

THE PIANO SHALL POSSESS PERFORMANCE CHARACTERISTICS SUCH AS OVERALL CONSTRUCTION, MUSICAL TONE OF SUFFICIENT DEPTH AND POWER, ACCEPTABLE KEYBOARD ACTION, AND ANY OTHER PERFORMANCE CHARACTERISTIC DEEMED NECESSARY FOR ITS INTENDED USE. THE AFOREMENTIONED PERFORMANCE CHARACTERISTICS MUST WARRANT THE APPROVAL OF THE NORTH CAROLINA ADVISORY COMMITTEE ON MUSICAL INSTRUMENTS. THE COMMITTEE, AT ITS SOLE DISCRETION, WILL DETERMINE THE CLASSIFICATION OF THE PIANO. THE COMMITTEE'S DECISION IS FINAL.

Q. WORKMANSHIP

THE PIANO SHALL EXHIBIT THROUGHOUT, CAREFUL ATTENTION TO DETAILS OF ASSEMBLY, WORKMANSHIP AND DURABILITY COMMENSURATE WITH THE LEVEL OF QUALITY DESCRIBED IN THIS SPECIFICATION.

IV. WARRANTY

PIANOS FURNISHED UNDER THIS SPECIFICATION SHALL BE NEW AND SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIALS, WORKMANSHIP, AND PERFORMANCE IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD WARRANTY, EXCEPT THAT IN NO EVENT SHALL SUCH COVERAGE BE FOR LESS THAN TEN (10) YEARS FROM DATE OF DELIVERY TO THE ORDERING AGENCY. WARRANTY SERVICE SHALL BE PROVIDED ON SITE AT ANY LOCATION WITHIN THE STATE OF NORTH CAROLINA, AND DEFECTIVE UNITS SHALL BE REPAIRED OR REPLACED DURING THE WARRANTY PERIOD AT NO COST TO THE OWNER OR HIS REPRESENTATIVE.

V. SERVICE, PARTS, AND MANUALS

A SERVICE MANUAL AND PARTS LIST SHALL BE PROVIDED WITH EACH PIANO.

VI. PREPARATION AT TIME OF DELIVERY

THE CONTRACTOR SHALL FURNISH THE OWNER, AT THE TIME OF DELIVERY, A WRITTEN STATEMENT THAT THE PIANO HAS BEEN PROPERLY SET UP, REGULATED AND TUNED TO THE PIANO MANUFACTURER'S SPECIFICATIONS.

VII. ACCEPTANCE EVALUATION AND QUALITY ASSURANCE

UPON DELIVERY OF THE PIANO, THE OWNER OR HIS AUTHORIZED REPRESENTATIVE WILL LIKELY CONDUCT AN ACCEPTANCE INSPECTION FOR COMPLIANCE WITH THE PROVISIONS OF THIS SPECIFICATION.

VIII. DELIVERY AND PAYMENT

DELIVERY OF AND PAYMENT FOR PIANOS UNDER THIS SPECIFICATION SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE INVITATION FOR BIDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PACKING, PACKAGING, OR PROTECTION REQUIRED TO INSURE DELIVERY IN AN UNDAMAGED CONDITION AS WELL AS REMOVAL OF ALL PACKAGING MATERIAL FROM SITE.

IX. ORDERING DATA (FOR PURCHASE & CONTRACT USE ONLY)

PURCHASERS SHOULD EXERCISE ANY DESIRED OPTIONS OFFERED HEREIN AND SHOULD SPECIFY THE FOLLOWING IN THE REQUISITION AND INVITATION FOR BIDS:

1. TITLE, NUMBER, AND DATE OF THIS SPECIFICATION
2. CLASS PIANO DESIRED
3. TYPE OF FINISH (OAK, WALNUT, ETC.)

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